# MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY AIR QUALITY DIVISION

November 6, 2023

PERMIT TO INSTALL 127-23

#### **ISSUED TO**

Global Remediation Technologies, Inc.

## **LOCATED AT**

3446 East US-223 Adrian, Michigan 49221

IN THE COUNTY OF Lenawee

## STATE REGISTRATION NUMBER P1349

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

UIRED BY RULE 203:					
September 28, 2023					
SIGNATURE:					
SIGNATURE:					
SIGNATURE:					
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# **PERMIT TO INSTALL**

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#### **COMMON ACRONYMS**

AQD Air Quality Division

Best Available Control Technology **BACT** 

CAA Clean Air Act

Compliance Assurance Monitoring CAM Continuous Emission Monitoring System **CEMS** 

Code of Federal Regulations CFR

Continuous Opacity Monitoring System COMS

Department/department/EGLE Michigan Department of Environment, Great Lakes, and Energy

**Emission Unit** EU FG Flexible Group

**GACS** Gallons of Applied Coating Solids

**General Condition** GC **GHGs** Greenhouse Gases

**HVLP** High Volume Low Pressure\*

ID Identification

**IRSL** Initial Risk Screening Level Initial Threshold Screening Level **ITSL** Lowest Achievable Emission Rate **LAER** Maximum Achievable Control Technology **MACT MAERS** Michigan Air Emissions Reporting System

MAP Malfunction Abatement Plan **MSDS** Material Safety Data Sheet

Not Applicable NA

**NAAQS** National Ambient Air Quality Standards

**NESHAP** National Emission Standard for Hazardous Air Pollutants

**NSPS New Source Performance Standards** 

NSR **New Source Review** PS Performance Specification

Prevention of Significant Deterioration **PSD** 

PTE Permanent Total Enclosure

Permit to Install PTI

**RACT** Reasonable Available Control Technology

Renewable Operating Permit **ROP** 

Special Condition SC

Selective Catalytic Reduction **SCR** Selective Non-Catalytic Reduction SNCR

State Registration Number SRN

**TBD** To Be Determined

TEQ **Toxicity Equivalence Quotient** 

USEPA/EPA United States Environmental Protection Agency

Visible Emissions VΕ

<sup>\*</sup>For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

#### **POLLUTANT / MEASUREMENT ABBREVIATIONS**

acfm Actual cubic feet per minute

BTU British Thermal Unit °C Degrees Celsius CO Carbon Monoxide

CO2e Carbon Dioxide Equivalent dscf Dry standard cubic foot dscm Dry standard cubic meter Pegrees Fahrenheit

gr Grains

HAP Hazardous Air Pollutant

Hg Mercury hr Hour

HP Horsepower Hydrogen Sulfide

kW Kilowatt

lb Pound

m Meter

mg Milligram

mm Millimeter

MM Million

MW Megawatts

NMOC Non-Methane Organic Compounds

NO<sub>x</sub> Oxides of Nitrogen

ng Nanogram

PM Particulate Matter

PM10 Particulate Matter equal to or less than 10 microns in diameter PM2.5 Particulate Matter equal to or less than 2.5 microns in diameter

pph Pounds per hour ppm Parts per million

ppmv Parts per million by volume ppmw Parts per million by weight

psia Pounds per square inch absolute psig Pounds per square inch gauge

scf Standard cubic feet

sec Seconds SO<sub>2</sub> Sulfur Dioxide

TAC Toxic Air Contaminant

Temp Temperature

THC Total Hydrocarbons tpy Tons per year Microgram

μm Micrometer or Micron

VOC Volatile Organic Compounds

yr Year

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#### **GENERAL CONDITIONS**

- 1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. (R 336.1201(1))
- 2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. (R 336.1201(4))
- 3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. (R 336.1201(6)(b))
- 4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. (R 336.1201(8), Section 5510 of Act 451, PA 1994)
- 5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. (R 336.1219)
- 6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. (R 336.1901)
- 7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal condition or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). (R 336.1912)
- 8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
- Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
- 10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

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- 11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). (R 336.1301)
  - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
  - b) A visible emission limit specified by an applicable federal new source performance standard.
  - c) A visible emission limit specified as a condition of this Permit to Install.
- 12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). (R 336.1370)
- 13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. (R 336.2001)

### **EMISSION UNIT SPECIAL CONDITIONS**

## **EMISSION UNIT SUMMARY TABLE**

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Flexible Group ID
EUSVE	25 soil vapor extraction wells, air sparging, vacuum blower(s) and an air flow distribution system equipped with a 3 in 1 multimode oxidation system control device prior to discharge.	NA
EUGWTS	Air stripping tower(s), pump(s), five recovery wells, and a groundwater flow distribution system equipped with a knockout tank, booster blower, then a catalytic oxidizer control device prior to discharge.	NA

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

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# EUSVE EMISSION UNIT CONDITIONS

#### **DESCRIPTION**

25 soil vapor extraction wells, air sparging, vacuum blower(s) and an air flow distribution system equipped with a 3 in 1 multimode oxidation system control device prior to discharge.

Flexible Group ID: NA.

#### POLLUTION CONTROL EQUIPMENT

The control device includes a multimode oxidation system that is capable of three modes, flame mode, thermal mode, and catalytic mode.

#### I. EMISSION LIMIT(S)

NA

#### II. MATERIAL LIMIT(S)

NA

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

## IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall not operate EUSVE unless the 3 in 1 multimode oxidation system is installed, maintained, and operated in a satisfactory manner. (R 336.1225, R 336.1702(a), R 336.1910)
- 2. The permittee shall not operate EUSVE in Catalytic Mode unless the catalyst is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the multimode oxidation system while in Catalytic Mode includes a minimum VOC destruction efficiency of 98 percent (by weight), a minimum catalyst bed inlet temperature of 650 °F, and a maximum space velocity of 10800 inverse hours. (R 336.1225, R 336.1702(a), R 336.1910)
- 3. The permittee shall not operate EUSVE unless the Thermal and Flame Modes of the multimode oxidation system are operated in a satisfactory manner. Satisfactory operation of the thermal oxidizer includes a minimum VOC destruction efficiency of 98 percent (by weight) and maintaining a minimum temperature of 650 °F and a minimum retention time of 0.5 seconds. (R 336.1225, R 336.1702(a), R 336.1910)
- 4. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner, a temperature monitoring device to continuously monitor and record the inlet and outlet temperatures of the catalytic oxidizer catalyst bed while the multimode oxidation system is in Catalytic Mode. (R 336.1225, R 336.1702(a), R 336.1901, R 336.1910)
- 5. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner, a device to monitor and record the temperature of the combustion chamber of the multimode oxidation system on a continuous basis while in Thermal and Flame Mode. (R 336.1225, R 336.1702(a), R 336.1910)
- 6. The permittee shall not operate EUSVE unless a monitoring device to continuously display the mode the multimode oxidation is operating under is installed, maintained, and operated in a satisfactory manner. (R 336.1225, R 336.1910)

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#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15<sup>th</sup> day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1225, R 336.1702(a))
- 2. The permittee shall monitor and record, in a satisfactory manner, the flow rate, the total VOC concentration, the benzene concentration, and the ethylbenzene concentration of the effluent stream(s) to EUSVE. This shall be done on a monthly basis until four valid samples, which pass all quality assurance and quality control requirements, have been obtained. Thereafter, the permittee shall monitor the effluent stream(s) to EUSVE for these parameters on a quarterly basis. The permittee shall submit any request for a change in the sampling frequency to the AQD District Supervisor for review and approval. (R 336.1225, R 336.1702(a), R 336.1910)
- 3. The permittee shall monitor and record, in a satisfactory manner, the temperature of the combustion chamber of the multimode oxidation system on a continuous basis while the multimode oxidation system is in Thermal or Flame Mode. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702(a), R 336.1910)
- 4. The permittee shall continuously monitor and record, in a satisfactory manner, the inlet and outlet temperatures of the catalyst bed, while the multimode oxidation system is in Catalytic Mode. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702(a), R 336.1910)
- 5. The permittee shall keep, in a satisfactory manner, records of the change of mode in the multimode oxidation system including:
  - a) The number of mode changes to Thermal Mode
  - b) The number of mode changes to Flame Mode
  - c) The number of mode changes to Catalytic Mode

The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1910)

#### VII. REPORTING

- 1. The permittee shall submit the following to the AQD District Supervisor using Appendix 1 or an approved equivalent method:
  - a) flow rate
  - b) benzene, ethylbenzene, and total VOC concentration of the effluent stream(s) to EUSVE
  - c) calculations of VOC emission rates.
  - d) the number of mode changes of the multimode oxidation system.

The information shall be submitted within 30 days following collection of the initial data, and thereafter within 30 days following the end of the month in which the data were collected. The permittee must submit any request for a change in the reporting frequency to the AQD District Supervisor for review and approval. (R 336.1225, R 336.1702(a), R 336.1910)

#### VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

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Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVFLAMEOX	24	10	R 336.1225

# IX. OTHER REQUIREMENT(S)

NA

### Footnotes:

<sup>&</sup>lt;sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

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# EUGWTS EMISSION UNIT CONDITIONS

#### **DESCRIPTION**

Air stripping tower(s), pump(s), five recovery wells, and a groundwater flow distribution system equipped with a knockout tank, booster blower, then a catalytic oxidizer control device prior to discharge.

Flexible Group ID: NA.

#### POLLUTION CONTROL EQUIPMENT

A catalytic oxidizer.

#### I. EMISSION LIMIT(S)

NA

#### II. MATERIAL LIMIT(S)

NA

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall not operate EUGWTS unless the catalytic oxidizer is installed, maintained, and operated in a satisfactory manner. (R 336.1225, R 336.1702(a), R 336.1910)
- 2. The permittee shall not operate EUGWTS unless the catalytic oxidizer is installed, maintained, and operated in a satisfactory manner. Satisfactory operation of the catalytic oxidizer includes a minimum VOC destruction efficiency of 98 percent (by weight), a minimum catalyst bed inlet temperature of 626 °F, and a maximum space velocity of 8400 inverse hours. (R 336.1225, R 336.1702(a), R 336.1910)
- 3. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner, a temperature monitoring device to continuously monitor and record the inlet and outlet temperatures of the catalytic oxidizer catalyst bed. (R 336.1225, R 336.1702(a), R 336.1910)

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1225, R 336.1702(a))
- 2. The permittee shall monitor and record, in a satisfactory manner, the flow rate, the total VOC concentration, the benzene concentration, and the ethylbenzene concentration of the air stripper influent and effluent water streams. This shall be done on a monthly basis until four valid samples, which pass all quality assurance and quality control requirements, have been obtained. Thereafter, the permittee shall monitor the air stripper influent and effluent water streams for these parameters on a quarterly basis. The permittee shall

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determine the total VOC concentration using the standard EGLE groundwater analytical scans for VOCs. The permittee shall submit any request for a change in the sampling frequency to the AQD District Supervisor for review and approval. (R 336.1225, R 336.1702, R 336.1901, R 336.1910, 40 CFR 52.21)

- 3. The permittee shall continuously monitor and record, in a satisfactory manner, the inlet and outlet temperatures of the catalytic oxidizer catalyst bed. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702(a), R 336.1910)
- 4. The permittee shall keep, in a satisfactory manner, records of the temperature of the inlet to and outlet of the catalyst bed of the catalytic oxidizer for EUGWTS, as required by SC IV.2 and SC VI.3. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702(a), R 336.1910)

### VII. REPORTING

- 1. The permittee shall submit the following to the AQD District Supervisor using Appendix 2 or an approved equivalent method:
  - a) flow rate
  - b) benzene, ethylbenzene, and total VOC concentration of the air stripper influent and effluent water streams
  - c) calculations of VOC emission rates.

The information shall be submitted within 30 days following collection of the initial data, and thereafter within 30 days following the end of the month in which the data were collected. The permittee must submit any request for a change in the reporting frequency to the AQD District Supervisor for review and approval. (R 336.1225, R 336.1702(a), R 336.1910)

## VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

	Maximum Exhaust Diameter / Dimensions	Minimum Height Above Ground	Underlying Applicable
Stack & Vent ID	(inches)	(feet)	Requirements
1. SVCATOX	6	10	R 336.1225

#### IX. OTHER REQUIREMENT(S)

NA

#### Footnotes:

<sup>&</sup>lt;sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

## **FGFACILITY CONDITIONS**

### **DESCRIPTION**

The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment, and exempt equipment.

#### POLLUTION CONTROL EQUIPMENT

NA

#### I. EMISSION LIMIT(S)

Pollut	ant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
<ol> <li>Benzer</li> </ol>	ne	0.060 lb per	Hourly	EUSVE	SC VI.2	R 336.1225
		hour		EUGWTS		
2. Ethylbe	enzene	0.240 lb per	Hourly	EUSVE	SC VI.2	R 336.1225
		hour		EUGWTS		
3. VOC		1.2 lb per hour	Hourly	EUSVE	SC VI.2	R 336.1225
				EUGWTS		R 336.1702(a)

## II. MATERIAL LIMIT(S)

NA

# III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

# IV. <u>DESIGN/EQUIPMENT PARAMETER(S)</u>

NA

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1225, R 336.1702(a))
- 2. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period calculations of benzene, ethylbenzene, and VOC emission rates for FGFACILITY, as required by SC I.1 through SC I.3. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702(a))

#### VII. REPORTING

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# VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

NA

# IX. OTHER REQUIREMENT(S)

NA

#### Footnotes:

<sup>&</sup>lt;sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

# APPENDIX 1 Soil Remediation Emission Calculation and Recordkeeping

Source Name		Contact Person		
Location		County		
Recordkeeping Period		Permit Number	Pollutant(s)	
Start Date End Date				

	V	С		Es	Ps
Date	Air Volume Flow Rate (ft³/min)	Inlet Concentration (mg/m³)¹	Operating Mode	Control Efficiency (Percent)	VOC Emissions (lbs/hr) <sup>2</sup>
EXAMPLE	1,000	10,000	Flame Mode	95	1.9

<sup>&</sup>lt;sup>1</sup> Parts per million (ppm) in air is by volume and does not equal milligrams per liter (mg/ $\ell$ ).

## **EQUATION TO CALCULATE EMISSIONS:**

$$P_{s} \; \frac{lbs}{hr} = V \; \frac{ft^{3}}{min} \times 0.02832 \; \frac{m^{3}}{ft^{3}} \times 60 \; \frac{min}{hr} \times C \; \frac{mg}{m^{3}} \times 0.001 \; \frac{g}{mg} \times 0.002205 \; \frac{lbs}{g} \times \frac{(100 - E_{s})}{100} \times \frac{100}{mg} \times \frac{g}{m^{3}} \times \frac{g}{m^{3$$

Signature:	Date:	
Telephone No.:		

<sup>&</sup>lt;sup>2</sup> Identify which pollutant the emissions are being calculated for.

# APPENDIX 2 Groundwater Remediation Emission Calculation and Recordkeeping

Source Name		Contact Pers	Contact Person		
Location	Location County				
Recordkeeping Period	Recordkeeping Period		er	Pollutant(s)	
Start Date	End Date				

	Α	В	С	D	F	E
	Water Flow	Concentration (ppm)			Control	voc
Date	(gal/min)	Inlet	Outlet	In - Out		Emissions (lbs/hr)
EXAMPLE	100	210	10	200	95	0.5

**EQUATIONS TO CALCULATE EMISSIONS:** 

D = B - C, all units in parts per million (ppm)

$$E \frac{lbs}{hr} = A \frac{gal}{min} \times 60 \frac{min}{hr} \times 8.34 \frac{lbs}{gal} \times D \times 10^{-6} \times \frac{(100 - F)}{100}$$

Signature:	Date:	
Telephone No.:		